INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2005/002472		
A. CLASSIFIC Int.Cl ⁷	ATION OF SUBJECT MATTER G01L3/10			
According to Inte	ernational Patent Classification (IPC) or to both national	classification and IPC		
B. FIELDS SEA				
Minimum docum	entation searched (classification system followed by classification)	ssification symbols)		
Int.Cl ⁷	G01L3/10			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X Y	JP 2729319 B2 (NSK Ltd.), 18 March, 1998 (18.03.98),		1-4 10-13	
A A	Full text; Figs. 10 to 11		5-9	
	(Family: none)		·	
x	JP 3-44528 A (NSK Ltd.),		1-4	
Y	26 February, 1991 (26.02.91),		10-13	
A	Full text; Figs. 1 to 9 (Family: none)		5-9	
Y	JP 6-78956 B2 (Unisia Jecs Co	orp.),	10,12	
	05 October, 1994 (05.10.94), Page 5, column 9, line 46 to	column 10. line 4.	[
	Figs. 3, 11		`	
	& EP 271633 A2 Page 10, column 18, lines 17	to 34: Figs 11 17	1	
		3777774C		
	·			
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	I.,	
"A" document de	gories of cited documents: efining the general state of the art which is not considered	T" later document published after the integrated date and not in conflict with the applic	cation but cited to understand	
to be of parti	icular relevance cation or patent but published on or after the international	the principle or theory underlying the in "X" document of particular relevance; the	invention	
filing date	•	considered novel or cannot be considered step when the document is taken alone	dered to involve an inventive	
cited to esta	which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other on (as specified)	"Y" document of particular relevance; the	claimed invention cannot be	
"O" document re	eferring to an oral disclosure, use, exhibition or other means	considered to involve an inventive combined with one or more other such being obvious to a person skilled in the	h documents, such combination	
-P" document pu priority date	ublished prior to the international filing date but later than the claimed	being obvious to a person skilled in th "&" document member of the same patent		
Date of the actua	al completion of the international search	Date of mailing of the international sea		
11 Apri	il, 2005 (11.04.05)	26 April, 2005 (26		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	JP 5-196520 A (Jatco Corp.), 06 August, 1993 (06.08.93), Par. No. [0010] (Family: none)	11	
Y	JP 2002-98506 A (The Furukawa Electric Co., Ltd.), 05 April, 2002 (05.04.02), Par. No. [0011] (Family: none)	13	
A	US 4724710 A (Balarama V. Murty), 16 February, 1988 (16.02.88), Full text; all drawings (Family: none)	1-13	
A	JP 2003-104217 A (Denso Corp.), 09 April, 2003 (09.04.03), Full text; all drawings & US 2003-0062215 A1 & DE 10244963 A & FR 2830228 A	1-13	
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 108584/1989(Laid-open No. 48714/1991) (Copal Co., Ltd.), 10 May, 1991 (10.05.91), Full text; Fig. 1 (Family: none)	1-13	